

ABSTRACT OF THE DISCLOSURE

APPARATUS AND METHODS FOR SPEECH RECOGNITION

A telephone dialing speech recognition method includes determining a location associated with a cellular telephone from geographic indications provided by the cellular telephone, and selects associated search information as a function of the location. Speech based dialers operating in a car environment often have difficulty determining the digits said since some digits have similar sounding names in certain languages. To improve recognition performance, constraints are added to the recognition process, based on the natural constraints of the dialing process. The method utilizes the selected associated search information when recognizing the incoming speech signal. For speech dialing, if the user defines a location where the phone is used, then the “numbering plan” of that country may be used to constrain certain digits. Such constraining of the speech recognizer significantly improves the recognition results.